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(54) **WEAR-RESISTANT POLYMERIC ARTICLES AND METHODS OF MAKING THE SAME**

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(*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 0 days.

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(57) **ABSTRACT**

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A substantially optically transparent article such as a lens having a wear-resistant surface comprises a substantially optically transparent polymeric substrate (e.g., a polycarbonate or polymethyl methacrylate substrate), and having a surface portion. A hard antiabrasive interconnecting layer is formed on the surface portion (typically by vacuum deposition and preferably by plasma-enhanced chemical vapor deposition), and a lubricious hydrophobic coating layer is bonded to the interconnecting layer. The lubricious hydrophobic coating layer, together with the hard antiabrasive interconnecting layer, form a wear-resistant surface on the substrate. The lubricious coating layer is formed from a hydrophobic organic lubricant such as a perfluoropolyether, a fatty acid, or a fatty acid esters. Methods of making such articles are also disclosed.

13 Claims, 1 Drawing Sheet

